Nihal Sheikh

Full-Stack Software Engineer

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SUMMARY

Versatile **Full-Stack Software Engineer** and Computer Engineering graduate with professional experience across the complete web development lifecycle – frontend, backend, APIs, databases, and deployment. Proficient in Python, JavaScript, and TypeScript with hands-on delivery of production applications using React, Next.js, and Django. Published IEEE researcher in applied deep learning. Enthusiastic collaborator with strong problem-solving aptitude, a commitment to software engineering best practices, and a continuous drive to learn and apply new technologies.

EDUCATION

G.H. Raisoni College of Engineering and Management   Pune, India
Bachelor of Technology in Computer Engineering

Relevant Coursework: Data Structures & Algorithms · OOP · Full Stack Web Development · DBMS · Software Engineering · System Design

EXPERIENCE

Software Developer Intern (Python & React)   Jul 2023 – Dec 2023
SoftTheNext   *Pune, India*
- Developed and deployed responsive, cross-browser React front-end components for multiple client websites, delivering consistent user experience across desktop and mobile devices.
- Designed and integrated RESTful APIs using Django and Python, applying OOP and software design principles to build scalable, maintainable service layers for production client applications.
- Collaborated in Agile sprints with cross-functional teams using Git and GitHub; participated in code reviews and contributed to shared documentation, consistently delivering features on schedule.

PROJECTS

Stack Overflow Clone – Full-Stack Q&A Web Application   codeoverflow-project.vercel.app
Next.js 14, React.js, TypeScript, Tailwind CSS, Shadcn UI, Clerk Authentication
- Architected and built a full-stack web application end-to-end: responsive frontend (React, Next.js, Tailwind CSS), multi-provider authentication (Clerk), scalable routing architecture, and CI/CD deployment via Vercel.
- Applied component-driven design, SOLID principles, and reusable UI patterns using Shadcn UI; implemented SEO optimisation and web performance best practices including code splitting and lazy loading.
- Integrated backend APIs for real-time data operations; implemented dynamic routing with Next.js Route Groups for a clean, maintainable, and extensible codebase.

Realtime Peer-to-Peer Chat Application   realtime-chat-rho-three.vercel.app
Bun, Next.js, TypeScript, Tailwind CSS, WebSocket
- Designed and built a low-latency, full-duplex real-time communication system using WebSocket; implemented session lifecycle management, auto-destruct (10-min timeout), and ephemeral data handling.
- Independently owned the complete software development lifecycle – architecture, implementation, testing, and deployment – demonstrating strong full-stack engineering capability.

RESEARCH & LEADERSHIP

Fundus Disease Detection Using Deep Learning   *IEEE ICAET 2025*
Python, VGG-19 CNN, Transfer Learning, Anaconda | Group Leader, ICAET Conference, Pune
- Developed a VGG-19-based CNN with transfer learning achieving high-precision retinal disease classification; conducted full model evaluation using precision, recall, F1-score and confusion matrix analysis.
- Led a collaborative team of four through the complete research lifecycle – data engineering, model development, evaluation, and IEEE publication – delivered on time and to conference quality standards.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, Java (basic)
Frontend: React.js, Next.js, Tailwind CSS, HTML5, CSS3, Shadcn UI, Responsive Design
Backend: Django, RESTful APIs, WebSocket, Node.js, Bun Runtime, FastAPI (familiar)
AI / ML: HuggingFace Transformers, LangChain, CNN / VGG-19, Gradio, Jupyter Notebook
Software Design: OOP, SOLID Principles, Design Patterns, Agile/Scrum, Code Review, CI/CD
Developer Tools: Git, GitHub, Vercel, VS Code, Anaconda, Docker (basic)
Databases: PostgreSQL, MySQL